



Fauquier County Department of Community Development  
 16 Courthouse Square  
 Warrenton VA 20186  
 540-422-8220  
 Fax 540-422-8231

**FLOODPLAIN STUDY CHECKLIST**

Please type or print legibly.

**Project Information**

Submittal Date: \_\_\_\_\_ Parcel ID# (PIN): \_\_\_\_\_

Project Identifier: \_\_\_\_\_ Magisterial District: \_\_\_\_\_

Location: \_\_\_\_\_

Project Description: \_\_\_\_\_

**General Information**

Reason for Study : \_\_\_\_\_

Is study proposing any fill in the floodplain (Y/N): \_\_\_\_\_

If yes, describe: \_\_\_\_\_

Is floodplain study revising FEMA Flood Insurance Study (FIS) reports and Flood Insurance Rate Maps (FIRM) (Y/N): \_\_\_\_\_

If yes, the request is for (select one of the following): \_\_\_CLOMR \_\_\_LOMR or \_\_\_Other \_\_\_  
 FEMA FIRM No.: \_\_\_\_\_ Effective Date: Feb. 6, 2008 Effective Zoning Designation: \_\_\_\_\_

Flooding Source: \_\_\_\_\_

**Contact Information**

<b>Current Property Owner</b>	<b>Applicant</b>
-------------------------------	------------------

Name: _____	Name: _____
-------------	-------------

Address: _____	Address: _____
----------------	----------------

Phone: _____	Phone: _____
--------------	--------------

Fax: \_\_\_\_\_

**Representative**

Contact Person: \_\_\_\_\_

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

<b>Submittal Requirements</b>		
Yes	No	N/A
		General Requirements:
		Floodplain Narrative
		Project location
		FEMA FIRM number and Flooding source
		Reason for floodplain study
		Description of upstream and downstream reach limits to be studied
		Source of topography and datums (Note: Structures and ground elevations shall be referenced to the North American Vertical Datum of 1988 (NAVD 88) when revising FEMA Flood Insurance Study (FIS) reports and FIRMS).
		Description of methodology used to develop hydrologic and hydraulic analysis
		Land cover description and development of Manning's 'n' coefficients
		Starting boundary conditions
		Summary of results (include table of river stations and 100-year water surface elevations for pre- and, if applicable, post-developed conditions)
		Other pertinent information
		Hydrologic Analysis (Maps)
		Drainage area map with drainage areas and acreages clearly annotated
		Mapping of predominant soils from County soil surveys with areas hatched based on hydrologic soil group (HSG). Include soil key and legend.
		Existing conditions land use map based on County Zoning.
		Ultimate conditions land use map, which includes the service districts as outlined in the Fauquier County Comprehensive Plan.
		Flow paths identifying sheet, shallow concentrated, and channel/pipe flow segments
		Topography (minimum of 5-foot contours from County GIS)
		Hydrologic Analysis (Calculations)
		Time of concentration (Tc) calculations
		Weighted curve numbers calculations based on existing land use
		Weighted curve numbers calculations based on ultimate land use
		Peak discharge calculations based on existing conditions (Hydrologic method shall be based on the NRCS methodology when revising FEMA FIS reports and FIRMS)
		Peak discharge calculations based on ultimate conditions
		Hydraulic Analysis (Maps)
		Cross section locations and labels
		Location of existing and proposed roads, buildings, and other structures. (Note: Post-developed conditions hydraulic model shall only include permitted uses and/or uses granted under Special Exception approval in accordance with the Floodplain Overlay District of the County Zoning Ordinance.)
		Location of floodplain limits and relationship of site to upstream and downstream properties and drainages.
		Locations and dimensions of proposed channel modification, such as bridge or culvert crossings
		Pre- and post-developed topography used to develop the hydraulic model (Pre-developed: use best available survey data; minimum of 5-foot contours from County GIS; Post-developed: minimum of 2 foot proposed contours)
		Delineated floodplain based on pre- and post-developed conditions
		Delineated floodplain reflecting ultimate hydrologic and build-out conditions
		Effective FEMA floodplain
		Base Flood Elevations
		Identify property boundary and all adjacent parcels with property owner (s) and PIN
		Does the post-developed hydraulic model extend to a point where no increase is shown

			to flood heights and/or velocities when compared to the pre-developed hydraulic model at the upstream and downstream limits?
			Does the revised floodplain boundary tie into the FEMA effective floodplain at the upstream and downstream limit of study?
			Hydraulic Analysis (Other Pertinent Information)
			Floodplain profile showing pre- and post-developed 100-year profile and bridge/culvert crossings as well as the channel invert and cross section locations.
			Cross section plots
			HEC-RAS input and output report
			Flash drive with digital copies of the hydrologic and hydraulic models
			Completed FEMA MT-2 application forms

**Certification**

TO BE COMPLETED BY APPLICANT OR REPRESENTATIVE

I hereby certify that the following information is included in the attached final floodplain study and accompanying materials. Further, I have included on the plan any conditions relating to the floodplain study as required by proffers of an approved rezoning, or required by special exceptions or variance approval, special agreement or covenants and have complied with all applicable regulations in accordance with the Floodplain Overlay District of the Fauquier County Zoning Ordinance.

\_\_\_\_\_  
Engineer's Signature

\_\_\_\_\_  
Firm Name

\_\_\_\_\_  
Date

Application: \_\_\_\_\_ Accepted \_\_\_\_\_ Rejected

\_\_\_\_\_  
Reviewer

\_\_\_\_\_  
Date